Performance Data Sheet

AVA5546EXG

General Information

Model	AVA5546EXG	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	12300	10300					
	Watts	2350	2320					
	Amps	3.99	3.95					
	Lb/h	159	138					
-10	Btu/h	15200	13000	10900				
	Watts	2500	2500	2450				
	Amps	4.17	4.16	4.11				
	Lb/h	194	173	151				
-5	Btu/h	18300	15900	13600	11400			
	Watts	2630	2660	2650	2590			
	Amps	4.32	4.35	4.34	4.27			
	Lb/h	233	211	188	164			
0	Btu/h	21700	19100	16600	14200	11800		
	Watts	2750	2810	2830	2810	2740		
	Amps	4.46	4.52	4.55	4.53	4.45		
	Lb/h	275	252	228	203	177		
5	Btu/h	25400	22700	20000	17300	14700		
	Watts	2850	2940	3000	3020	2990		
	Amps	4.58	4.68	4.74	4.76	4.73		
	Lb/h	320	296	271	245	219		
10	Btu/h	29400	26500	23600	20700	17900	15200	12500
	Watts	2950	3060	3150	3210	3220	3170	3070
	Amps	4.69	4.81	4.91	4.97	4.99	4.94	4.82
	Lb/h	368	344	319	292	264	235	205
15	Btu/h	33800	30700	27600	24500	21400	18400	15500
	Watts	3030	3170	3290	3380	3430	3430	3370
	Amps	4.78	4.94	5.07	5.17	5.23	5.23	5.17
	Lb/h	421	396	370	342	313	283	252
20	Btu/h	38600	35300	32000	28600	25300	22000	18900
	Watts	3100	3270	3420	3540	3620	3660	3650
	Amps	4.86	5.04	5.21	5.35	5.45	5.50	5.49
	Lb/h	477	452	425	397	367	336	303

25	Btu/h	43800	40300	36700	33100	29500	26000	22500
	Watts	3160	3350	3530	3680	3800	3880	3910
	Amps	4.93	5.13	5.33	5.51	5.65	5.75	5.79
	Lb/h	537	512	485	456	425	393	359
30	Btu/h	49400	45600	41800	38000	34100	30300	26600
	Watts	3210	3420	3630	3810	3970	4090	4160
	Amps	4.98	5.21	5.44	5.65	5.84	5.98	6.07
	Lb/h	602	577	549	520	488	455	420
35	Btu/h	55400	51400	47300	43200	39100	35000	31000
	Watts	3240	3480	3710	3930	4120	4270	4390
	Amps	5.02	5.28	5.54	5.78	6.01	6.20	6.34
	Lb/h	671	646	618	588	556	522	486
40	Btu/h	61900	57600	53300	48900	44500	40200	35800
	Watts	3270	3530	3790	4030	4250	4440	4600
	Amps	5.06	5.34	5.62	5.90	6.16	6.40	6.59
	Lb/h	745	720	692	661	629	594	558
45	Btu/h	68800	64300	59700	55100	50400	45700	41100
	Watts	3290	3570	3850	4120	4370	4600	4790
	Amps	5.08	5.38	5.70	6.01	6.31	6.58	6.82
	Lb/h	824	799	770	740	707	672	634
50	Btu/h	76300	71500	66600	61700	56700	51700	46700
	Watts	3300	3600	3900	4200	4480	4740	4970
	Amps	5.10	5.42	5.76	6.10	6.43	6.75	7.03
	Lb/h	908	883	855	824	790	755	717
55	Btu/h	84200	79200	74000	68800	63500	58200	52900
	Watts	3300	3610	3940	4260	4570	4870	5140
	Amps	5.10	5.45	5.81	6.18	6.55	6.91	7.24
	Lb/h	997	972	944	913	880	843	805

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.887417E+04	2.110587E+03	4.046116E+00	4.010570E+02
C2	9.167874E+02	2.685418E+00	1.069541E-02	8.521982E+00
C3	-1.451528E+02	-8.513222E-01	-9.253656E-03	-7.961873E-01
C4	7.566312E+00	-7.144991E-02	-1.312118E-04	5.337719E-02
C5	-1.540064E+00	-5.963475E-02	-2.129007E-04	1.522566E-02
C6	-1.289261E+00	2.282545E-01	3.316384E-04	-1.155112E-02
C7	2.488219E-02	4.578269E-04	1.221486E-06	2.642142E-04
C8	-1.506856E-02	-2.230666E-03	-2.472220E-06	1.699474E-04
C9	-1.278905E-02	3.822686E-03	5.066153E-06	-1.687828E-04
C10	5.167882E-03	-1.477178E-03	-1.889511E-06	2.191961E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature